

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of :
Thomas Paul NOLTING :
Serial No.: :
(Continuation of Serial No. 09/048,102) : Group Art Unit:
Filed: February 15, 2001 : Examiner:
For: NETWORK PLANNING TRAFFIC MEASUREMENT PROGRAM

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, DC 20231

Sir:

Prior to examination of the above-referenced application, please amend the application as follows:

IN THE CLAIMS:

1. (Amended) In a switched telecommunications network having end office switching systems controlled by a common channel signaling system connected to the end office switching systems and to paired signal transfer points, the method comprising:
monitoring the signaling between the end office switching systems and the signal transfer points and selecting the signaling relating to transactions and creating a plurality of flat files;
collating the [selected signaling] flat files by transaction;
processing the collated [signaling] flat files to create relational [flat] files relating to multiple transactions;

[subjecting the flat files to on line analytical processing to provide a multidimensional database to consolidate and summarize ongoing transactions and provide reports thereof]

performing an on line analysis program to obtain a multidimensional database from the multiple transactions of said relational files, said on line analysis program supporting interactive analysis for one or more users; and

generating an on line network traffic load report from the multidimensional database based at least in part on said interactive analysis.

Claim 3, line 2, change "incompleted" to --uncompleted--.

4. (Amended) A method according to claim 3 [including the step of providing a] wherein said traffic load report [of] includes calls dialed to a designated terminal in a designated time period.

Claim 6, line 2, change "incompleted" to --uncompleted--.

7. (Amended) A method according to claim 2 wherein said transactions comprise completed dialed telecommunication sessions between a calling terminal and a called terminal, and [including the steps of providing a] said report [of] includes calls dialed to a designated terminal in a designated time period and data regarding the lengths thereof.

8. (Amended) A method according to claim 7 wherein said transactions also comprise [incompleted] uncompleted attempts to establish dialed telecommunication sessions between a calling terminal and a called terminal, and [including the steps of providing a] said report [of]

includes the [incompleted] uncompleted calls dialed to said designated terminal in said designated time period.

23. (Amended) In a switched telecommunications network having end office switching systems controlled by an SS7 common channel signaling system using packet switching via A, B, C, and D links connected to paired signal transfer points connected to one another by D links and connected by A links to the end office switching systems, the method comprising:

monitoring the signaling in said A links and selecting the A link signaling relating to call set up;

collating said selected signaling by call;

processing said collated signaling to create relational files relating to multiple calls;

[subjecting the relational files to on line analytical processing to provide a multidimensional database to consolidate and summarize ongoing call attempts and completions and provide reports thereof.]

performing an on line analysis program to obtain a multidimensional database from the multiple transactions of said relational files, said on line analysis program supporting interactive analysis for one or more users; and

generating an on line network traffic load report from the multidimensional database that summarizes ongoing call attempts and completions based at least in part on said interactive analysis.

24. (Amended) A method according to claim 23 [including the step of providing a] said report [of] includes calls dialed to a designated terminal in a designated time period.

26. (Amended) A method according to claim 25 wherein said report includes data relating to the number of [incompleted] uncompleted calls within a time frame.

29. (Amended) In a switched telecommunications network having trunked end office and tandem switching systems controlled by an SS7 common channel signaling system using packet switching via A, B, C, and D links connected to paired signal transfer points connected to one another by C links and connected by A links to the end office and tandem switching systems, the method comprising:

monitoring the signaling in said A links and selecting the A link signaling relating to call set up between end office switching systems through a tandem switching system;

collating said selected signaling by call based at least in part on A link signaling to and from said tandem switching system;

processing said collated signaling to create relational files relating to multiple calls;

[subjecting the relational files to on line analytical processing to provide a multidimensional database to consolidate and summarize successful and unsuccessful attempts to route calls through said tandem switching system and provide reports thereof]

performing an on line analysis program to obtain a multidimensional database from the multiple transactions of said relational files, said on line analysis program supporting interactive analysis for one or more users; and

generating an on line network traffic load report from the multidimensional database based at least in part on said interactive analysis that summarizes successful and unsuccessful attempts to route calls through said tandem switching system.

30. (Amended) A method according to claim 29 [including the steps of providing reports of] wherein said report includes the identity of the end office switching systems from which calls were routed to said tandem switching system.

31. (Amended) A method according to claim 30 [including the steps of providing reports of] wherein said report includes the identity of the end office switching systems to which calls were routed from said tandem switching system.

32. (Amended) A switched telecommunications network having a trunked end office and tandem switching systems controlled by an SS7 common channel signaling system using packet switching via A, B, C, and D links connected to paired signal transfer points connected to one another by C links and connected by A links to the end office and tandem switching systems, comprising:

monitors interfacing to the signaling in said A links and selecting the A link signaling relating to call set up between end office switching systems through a tandem switching system;

processing means collating said selected signaling by call based at least in part on A link signaling to and from said tandem switching system;

processing means processing said collated signaling to create relational files relating to multiple calls;

on line analytical processing means providing a multidimensional database and supporting interactive analysis for one or more users, wherein said relational [flat] files are processed to consolidate and summarize successful and unsuccessful attempts to route calls through said tandem switching system and provide reports thereof.

39. (Amended) A method according to claim 38 wherein [said last named] processing of the collated common channel signaling and automatic message accounting output is performed at least in part by on line analytical processing means providing a multidimensional database, wherein relational data is processed to consolidate and summarize successful and unsuccessful attempts to route calls to completion.

Claim 40, line 3, change "storages" to --storage--.

Claim 41, line 2, change "storages" to --storage--.

43. (Amended) A switched telecommunications network having trunked end office and tandem switching systems controlled by an SS7 common channel signaling system using packet switching via A, B, C, and D links connected to paired signal transfer points connected to one another by C links and connected by A links to the end office and tandem switching systems, said network including:

monitors interfacing to the signaling in said A links and selecting the A link signaling relating to call set up between end office switching systems;

processing means collating said selected signaling by call based at least in part on A link signaling to and from said end office switching systems;

processing means processing said collated signaling to create relational files relating to multiple calls;

automatic message accounting equipment recording call details of call set up and tear down;

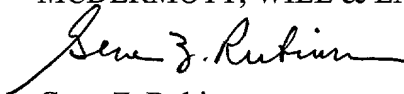
on line analytical processing means supporting interactive analysis for one or more users
and providing a multidimensional database, [wherein said relational files and] including
information relating to said call set up and tear down obtained from said relational files; and
a program for processing said multidimensional database [are processed] to consolidate
and summarize successful and unsuccessful attempts to route calls through said tandem
switching system and to provide reports thereof based at least in part on said interactive analysis.

REMARKS

This preliminary amendment is necessary to incorporate the preliminary amendments as
filed in parent application Serial No. 09/048,102. Entry of this preliminary amendment is
respectfully requested.

Respectfully submitted,

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